

We Claim:

- 5 1. A high density audio/video input/output interconnection device comprising:
a high density connector block that includes a plurality of jacks disposed on an outer
surface of the high density connector block including, a S-video input jack, a S-video
output jack, a composite video input jack, a composite video output jack, a digital
audio output jack, a right channel audio input jack and a left channel audio input jack;
a high density connector commonly interconnected to the plurality of jacks; and,
a plug for stereo audio output interconnected to the high density connector for
interface with a computer.
2. The connector as recited in claim 1, wherein the plurality of jacks further
include a digital video input/output jack.
3. The connector as recited in claim 1, wherein the high density connector block
further includes a jack for interconnection with an infrared transceiver.
4. The connector as recited in claim 1, wherein the plurality of input jacks are
disposed on opposing side from the plurality of output jacks.
5. The connector as recited in claim 1, wherein the high density connector block
further includes an infrared transceiver disposed on a surface of the high density connector
block separate from a first side surface of the plurality of input jacks and the second side
surface of the plurality of output jacks.
- 5 6. The connector as recited in claim 1, wherein the plurality of input jacks are
disposed on a first side surface and the plurality of output jacks are disposed on a second side
surface, such that the first side surface includes a multi-faceted recessed portion and the
second side surface includes a multi-faceted projecting portion, wherein the recessed portion
and corresponding projecting portion are defined by a plurality of surface elements.

7. A high density audio/video input/output connector block, comprising:
a housing having a longitudinal axis and including a top surface, a bottom surface, a front surface, a back surface, a first side surface, and a second side surface, such that the first and second side surfaces are oppositely disposed;

5 a plurality of jacks, for interconnection with peripheral devices, disposed on the first and second side surfaces;

a recessed portion formed on the first side surface having at least one of the plurality of jacks disposed therein;

10 a projecting portion formed on the second side surface having at least one of the plurality of jacks disposed therein; and,

a cable associated with the back surface.

8. The connector as recited in claim 7, wherein the plurality of jacks disposed on the first side surface includes at least one jack selected from the group consisting of a S-video input jack, a composite video input jack, an audio right channel input jack, an audio left channel input jack.

9. The connector as recited in claim 7, wherein the plurality of jacks disposed on the second side surface includes at least one jack selected from the group consisting of a digital video input/output jack, a S-video output jack, a composite video output, and a digital audio output jack.

10. The connector as recited in claim 7, wherein the high density connector block further includes an infrared transceiver associated therewith.

11. The connector as recited in claim 10, wherein the infrared transceiver is disposed on the front surface.

12. The connector as recited in claim 7, wherein the top surface further includes a grip enhancing portion defined by a plurality of ribs for increasing an operator's ability to grip the high density connector block.

13. The connector as recited in claim 7, wherein the cable is disposed offset from the longitudinal axis.

14. The connector as recited in claim 7, wherein the recessed portion includes a first surface element offset from the first side surface such that the first side surface is disposed at a first distance from the longitudinal axis which is greater than a second distance associated with the offset first surface element.

15. The connector as recited in claim 7, wherein the projecting portion includes a second side surface element offset from the second side surface such that the second side surface is disposed at a fourth distance from the longitudinal axis which is less than a fifth distance associated with the offset second side surface element.

16. The connector as recited in claim 7, wherein the recessed and projecting portions each further include at least one surface element which is parallel to the first and second side surfaces.

17. The connector as recited in claim 7, wherein the recessed portion includes a first multi-faceted surface having a plurality of first surface elements angularly disposed to one another.

18. The connector as recited in claim 7, wherein the projecting portion includes a second multi-faceted surface having a plurality of second surface elements angularly disposed to one another.

19. A high density audio/video input/output connector block, comprising:
a housing including a first side surface and a second side surface, and having a
longitudinal axis;

at least one audio jack disposed on the first and second side surfaces defined in a first
plane; and,

at least one video jack disposed on the first and second side surfaces defined in a
second plane, where that the first and second planes are substantially parallel such that
the audio and video jacks are offset.

20. The connector as recited in claim 19, wherein the first side surface further
includes a recessed portion.

21. The connector as recited in claim 20, wherein at least one video jack disposed
on the first side surface is disposed within the recessed portion.

22. The connector as recited in claim 19, wherein the second side surface further
includes a projecting portion.

23. The connector as recited in claim 22, wherein at least one video jack disposed
on the second side surface is disposed within the projecting portion.

24. The connector as recited in claim 19, wherein the housing further includes an
infrared transceiver associated therewith.

25. The connector as recited in claim 24, wherein the infrared transceiver is
disposed on a surface separate from the audio and video jacks.

26. A high density audio/video input/output interconnection device, comprising:
a high density connector for engagement with a computer connected to a first end of a
first cable and a first end of a second cable;

5 a high density connector block connected to a second end of the first cable for
interconnection with peripheral devices and in common communication with the high
density connector;

the high density connector block including a top surface, a bottom surface, a front
surface, a back surface, a first side surface, and a second side surface, such that the
first and second side surfaces are oppositely disposed;

10 a recessed portion formed on the first side surface where a first plurality of jacks are
disposed on the first side surface including within the recessed portion for
interconnection with peripheral devices;

15 a projecting portion forward on the second side surface where a second plurality of
jacks are disposed on the second side surface including within the projecting portion
for interconnection with peripheral devices;

the first plurality of jacks disposed on the first side selected from the group consisting
of a S-video input jack, a composite video input jack; an audio right channel input
jack, an audio left channel input jack, and an infrared transceiver jack;

20 the second plurality of jacks disposed on the second side are selected from the group
consisting of a digital input/output jack, a S-video output jack, a composite video
output jack, and a digital audio output jack; and,

a multi-channel audio plug connected to a second end of the second cable.

27. The connector as recited in claim 26, wherein the top surface further includes
a grip enhancing portion defined by a plurality of ribs formed in the top surface.

28. The connector as recited in claim 26, wherein the audio jacks on the first and
second side surfaces are defined in a first plane and the video jacks disposed on the first and
second side surfaces are defined in a second plane where the first and second planes are offset
substantially parallel such that the audio and video jacks are offset.